PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference Y0433-PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416						
International application No.	International filing date (day/month/year)	Priority date (day/month/year)						
PCT/JP2004/017521	18.11.2004	20.11.2003						
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International Patent Classification (IPC) or national classification and IPC A61K45/00, A61K31/277, A61K31/4375, A61K31/4409, A61K31/5377, A61P29/00, A61P13/10, C07D213/81, C07D213/75, C07D471/04 Applicant								
ASTELLAS PHARMA INC.								
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This REPORT consists of a total of	5 sheets, includ	ing this cover sheet.						
3. This report is also accompanied by A	NNEXES, comprising:							
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative								
Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental								
Box.								
b (sent to the International	Bureau only) a total of (indicate type and num	ber of electronic carrier(s))						
containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This report contains indications relati	ng to the following items:							
Box No. I Basis of the	report							
Box No. II Priority								
Ž	shment of opinion with regard to novelty, inve	entive step and industrial applicability						
Box No. V Reasoned s								
Box No. VI Cortain doc	cuments cited	·						
Box No. VII Certain def	ects in the international application							
Box No. VIII Certain observations on the international application								
Date of submission of the demand	Date of completion of	this report						
	and or completion of							
Name and mailing address of the IPEA/JP	Authorized officer							
Facsimile No.	Telephone No.	•						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/017521

Вох	No. I	Basis of the report						
1.		n regard to the language, this report is based on the internation ated under this item.	nal application in the language in which it	was filed, unless otherwise				
		This report is based on translations from the original language which is the language of a translation furnished for the purp						
		international search (Rule 12.3 and 23.1(b))						
		publication of the international application (Rule 12.4)	•					
		international preliminary examination (Rule 55.2 and/						
2.	rece	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to his report):						
	×	the international application as originally filed/furnished	·					
	Ш	the description:						
		pages		as originally filed/furnished				
		pages*	received by this Authority on					
		pages*	received by this Authority on	·				
		the claims:						
		nos.		as originally filed/furnished				
	•	nos.*	as amended (together with an	y statement) under Article 19				
		nos.*	received by this Authority on					
		nos.*	received by this Authority on					
		the drawings:						
	_	sheets		as originally filed/furnished				
		sheets*	received by this Authority on	as originally life statistics				
		sheets*		<u>.</u>				
			-					
		a sequence listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence Listing.					
3.	Ш	The amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, nos.	the claims, nos.					
		the drawings, sheets/figs	4					
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):	i					
4.		This report has been established as if (some of) the amenda they have been considered to go beyond the disclosure as file	ed, as indicated in the Supplemental Box (low had not been made, since Rule 70.2(c)).				
		the description, pages						
				<u></u>				
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
*	If ite	m 4 applies, some or all of those sheets may be marked "supe	rseded."					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/017521

Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
	the entire international application				
\boxtimes	claims Nos. 4, 6, 7				
because	,				
	the said international application, or the said claims Nos. 4, 6, 7 relate to the following subject matter which does not require an international preliminary examination (specify):				
	Claims 4, 6 and 7 pertain to methods for the				
	treatment of the human body by therapy, and thus				
	relate to a subject matter for which this				
	International Preliminary Examining Authority is not				
	required to carry out an international preliminary				
	examination under the provisions of PCT Article				
	34(4)(a)(i) and PCT Rule 67.1(iv).				
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):				
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.				
\square	no international search report has been established for said claims Nos. 4, 6, 7				
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative				
	Instructions in that:				
	the written form has not been furnished does not comply with the standard				
	the computer readable form has not been furnished				
	does not comply with the standard				
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
. —	See Supplemental Box for further details.				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
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Box No. V Reasoned statement under A citations and explanations su		rticle 35(2) with regard to novelty, inventive step or industrial applicability; pporting such statement					
1.	Statement						
	Novelty (N	Ŋ	Claims	1-3,	_5_		YES
			Claims				NO
	Inventive s	tep (IS)	Claims				YES
			Claims	1-3,	5		NO
	Industrial a	applicability (IA)	Claims	1-3,	5		YES
			Claims				_ NO

2. Citations and explanations (Rule 70.7)

The following documents are cited in the international search report.

Document 1: JP 2002-513914 A

Document 2: A. HATZELMANN et al., J. Pharmacol. Exp.

Ther., 2001, 297 (1), pages 267 to 279

Claims 1 to 3 and 5

Claims 1 to 3 and 5 do not involve an inventive step in the light of documents 1 and 2.

Document 1 indicates that anti-TNF α agents such as phosphodiesterase inhibitors can be used to treat chronic pelvic pain syndrome. In addition, phosphodiesterase 4 inhibitors such as roflumilast are known to exhibit an anti-TNF α action, as is indicated in document 2. Such being the case, it would have been easy for a person skilled in the art to conceive of using a phosphodiesterase 4 inhibitor in order to treat chronic pelvic pain syndrome.

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1, 3 and 5 pertain to therapeutic agents against chronic pelvic pain syndrome which include a compound that is defined by a desired characteristic, i.e. being a "phosphodiesterase 4 inhibitor," as an active component. Thus, the scopes of claims 1, 3 and 5 include any compound that exhibits such a characteristic; however, only an extremely small number of the claimed compounds are disclosed in the description in the meaning of PCT Article 5, and thus the abovementioned claims cannot be considered to be fully supported by the disclosures of the description in the meaning of PCT Article 6.

In addition, it is impossible to specify the scope of the compounds that exhibit the desired characteristic of being a "phosphodiesterase 4 inhibitor," even with consideration of common technical knowledge at the time the present application was filed. Consequently, claims 1, 3 and 5 do not conform to the requirement of clarity as stipulated in PCT Article 6.